Series1

Alldiagnosticconnectorsarelocated in the right hand side of the carinthe large black box. The cover can easily be removed by first removing the front cover exposing the relais followed by the top cover. This will expose the ECU's. From front to back the following ECU's can be found (dependent on the equipment in stalled) Hydroactive Ior II, Engine ECU, ABSECU. The diagnostic connectors can be found floating arround in the ECU compartment, and can be identified by their color. The diagnostic connectors are protected by a cover which can be removed.

Hydroactive diagnostic connector: blue.

Enginediagnosticconnector:green(pin2)

ABSdiagnosticconnector:grey

Aircodiagnosticconnector:black

Series2

I'munsurefromwhat,tillwhattimethelarge30pinsdiagnosticconnectorisused. The connectoris3pinswideand10pinslongwiththeconnectorhousingbeingbrown. Thepins arenumbered1,2,3fromtoptobottomandA,B,C...,I,Jfromlefttoright.

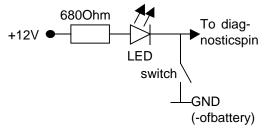
Hydroactivediagnosticspin:E2

Enginediagnosticspin:C3

ABSdiagnosticspin:E1

Aircodiagnosticspin:F1

The following circuit can be used to read out the diagnostic codes.



Incasethelarge30pinsdiagnosticconnectorispresentonlyawiretoconnectthediagnostic pintogroundisneeded. Thereadoutwillworkviathediagnosticlightsonthedashboard. (In caseitdoesn'twork, one can always revert back to the circuit described above.)

Tostartreadoutofthecodes:

- 1. Connect the circuit above, with the switch opened.
- 2. Turnonignition
- 3. Within 3 seconds close the switch for 3-5 seconds, and open it again
- 4. The start code 12 will appear. Blink, pause, blink, blink.
- 5. Presstheswitchagainfor 3-5 seconds, and open itagain.
- 6a. Nowthediagnostic codes will follow in case there is an error code stored.
- 6b.Ifnomorecodesarestoredtheendcode11willapear.Blink,pause,blink.

7arepeatstep5and6untilallcodesarereadout

7bAftertheendcodeyoucanclearallcodes.

Toclearallstorederrorcodes:

- 1.Firstreadoutallcodesdescribedabove
- 2. After the end code, close the switch for excactly 15 seconds.
- 3. Openthes witch again
- 4. Nowall stored codes are cleared.

Alternativelyyoucaneraseallerrorcodesbydisconnectingthebatteryfor10(ormore) minutes. This will not only clear the codes, but also erase the 'learned' settings (egfor the engine) and refer back to factory default.

- . . .

| Code Description | Check | Comp |
|--|---|------|
| **** ECUXMMagnetiMarelliG5 | XM2.0RDZXU10MMonopoint XM2.0R6AXU10J2Monopoint(from'91) | *** |
| 11 Endtest | , , , | *** |
| 12 Starttest | | *** |
| 13 Injectionairtempsensor | 4k@10C;2,5k@20C;680@55C | 907 |
| 14 Coolingwatertempsensor | 4k@10C;2,5k@20C;680@55C;230@90C | 909 |
| 21 Throttlespindlepotentiometer | 4,5Vmaxswingonpin2 | 770 |
| 22 Idlingactuator/Idlespeed regulator | | 432 |
| 23 Idlespeedcontrolfailure | | |
| 31 Automaticadjustmentair/fuel ratio | oxygen/lambdasensortooquick(disconnectheater elementtoresolve) | 900 |
| 33 Inletmanifoldairpressuresensor | 170hPA:0.25V,1040hPA:4.8Vbetweenpin9 and12(gnd)onECU | 903 |
| 34 Canisterdischargevalve(active carbonfilter) | | 430 |
| 41 Enginespeedsensor | 345Ohmbetweenpin14and31;checkisolationto ground | 152 |
| 42 Fuelinjector | Checkresistanceofinjector.1.5Ohm | 570 |
| 45 Ignitioncoil1-4 | Checkvoltagebetweenpin1andground,shouldbe +12V.Checkprimarywindingsshouldbe1.4Ohm (betweenpin1and4oncoil),secondary8.6kOhm (Valeo)or14kOhm(Bosch) | |
| 52 Air/fuelmixturecontrolloop | inletoroutletmanifoldleakorlambda-sensor failure | |
| 54 ECUmalfunction | | 142 |
| 57 Ignitioncoil2-3 | Checkvoltagebetweenpin2andground,shouldbe +12V.Checkprimarywindingsshouldbe1.4Ohm (betweenpin2and4oncoil),secondary8.6kOhm (Valeo)or14kOhm(Bosch) | |

| Code Description | Check | Comp |
|--|---|------|
| **** ECUXMBoschMotronicMP3.1 | XM2.0RFZXU10J2/ZMultipoint(tilljun-93) | *** |
| 11 Endtest | | *** |
| 12 Starttest | | *** |
| 13 Injectionairtempsensor | 4k@10C;2,5k@20C;680@55C | 907 |
| 14 Coolingwatertempsensor | 4k@10C;2,5k@20C;680@55C;230@90C | 909 |
| 21 Throttlespindlepotentiometer | Closed0.5V,fullyopen4.5V(minimal) | 770 |
| 22 Idlingactuator/Idlespeed regulator | | 432 |
| 31 Automaticadjustmentair/fuel ratio | Checkogygensensor,inlet&outletmanifoldon leakage,fuelpressure,fuelinjectors,sparkplugs, airfilterelement,compression. | 900 |
| 33 Inletmanifoldairpressuresensor | IsintegratedintheECUandcannotbechecked. CheckvacuumhosetoECU. | |
| 34 Canisterdischargevalve(active carbonfilter) | | 430 |
| 41 Enginespeedsensor | 245Ohmbetweenpin23and25;checkisolationto ground | 152 |
| 51 Oxygen/lambdasensor | Whenenginehotandrunningshouldconstantly changefrom0to1Vmeasuredbetweenpin24and pin8. | 900 |
| 52 Air/fuelmixturecontrolloop | inletoroutletmanifoldleakorlambda-sensor failure | |
| 53 Sensorpowersupply | Pin16and5shouldbeconnectedtoground.Pin18 shouldhave+12V. | |
| 54 ECUmalfunction | | 142 |
| | | |

| Code Description | Check | Comp |
|--|---|------|
| **** ECUXMBoschMotronicMP3.2 | XM2.0TurboRGYorRGXXU10J2T/Z/L/L3 Multipoint | *** |
| Warning:Notcheckedagainst actualschematics! | | |
| 11 Endtest | | *** |
| 12 Starttest | | *** |
| 13 Injectionairtempsensor | 4k@10C;2,5k@20C;680@55C | 907 |
| 14 Coolingwatertempsensor | 4k@10C;2,5k@20C;680@55C;230@90C | 909 |
| 21 Throttlespindlepotentiometer | Closed0.5V,fullyopen4.5V(minimal) | 770 |
| 22 Idlingactuator/Idlespeed regulator | | 432 |
| 31 Automaticadjustmentair/fuel ratio | Checkogygensensor,inlet&outletmanifoldon leakage,fuelpressure,fuelinjectors,sparkplugs, airfilterelement,compression. | 900 |
| 33 Inletmanifoldairpressuresensor | IsintegratedintheECUandcannotbechecked. CheckvacuumhosetoECU. | |
| 34 Canisterdischargevalve(active carbonfilter) | | 430 |
| 41 Enginespeedsensor | 330Ohmbetweenpin48and49;checkisolationto ground | 152 |
| 43 Engineknockcontrolloop | correctfuelgrade,mechanicalstateengine | |
| 44 Anti-knocksensor | Checkmountingofsensor(torque:20Nm) | 150 |
| 51 Oxygen/lambdasensor | Whenenginehotandrunningshouldconstantly changefrom0to1Vmeasuredbetweenpin28and pin10. | 900 |
| 52 Air/fuelmixturecontrolloop | inletoroutletmanifoldleakorlambda-sensor failure | |
| 53 Sensorpowersupply | | |
| 54 ECUmalfunction | | 142 |
| 65 Sensorreferencecylinder | | |
| 71 Fuelinjector1 | Checkfuelinjectorresistance.Shouldbe16Ohm each. | |
| 72 Fuelinjector2 | Checkfuelinjectorresistance.Shouldbe16Ohm each. | |
| 73 Fuelinjector3 | Checkfuelinjectorresistance.Shouldbe16Ohm each. | |
| 74 Fuelinjector4 | Checkfuelinjectorresistance. Should be 160hm each. | |

| Code Description **** ECUXMBoschMotronicMP5.1 11 Endtest 12 Starttest | Check XM2.0RFZXU10J2/ZMultipoint(fromjul-93) | Comp *** *** |
|---|---|-------------------|
| 13 Injectionairtempsensor | 4k@10C;2,5k@20C;680@55C | 907 |
| 14 Coolingwatertempsensor21 Throttlespindlepotentiometer22 Idlingactuator/Idlespeedregulator | 4k@10C;2,5k@20C;680@55C;230@90C Closed0.5V,fullyopen4.5V(minimal) | 909 770 432 |
| 31 Automaticadjustmentair/fuel ratio | Checkogygensensor,inlet&outletmanifoldon leakage,fuelpressure,fuelinjectors,sparkplugs, airfilterelement,compression. | 900 |
| 33 Inletmanifoldairpressuresensor | IsintegratedintheECUandcannotbechecked. CheckvacuumhosetoECU. | 903 |
| 34 Canisterdischargevalve(active carbonfilter) | | 430 |
| 41 Enginespeedsensor | 320-340Ohmbetweenpin11and30;check isolationtoground | 152 |
| 42 Fuelinjectors | Checkresistanceofeachinjector.Shouldbe16 Ohmeach. | 570 |
| 51 Oxygen/lambdasensor | Whenenginehotandrunningshouldconstantly changefrom0to1Vmeasuredbetweenpin28and pin10. | 900 |
| 52 Air/fuelmixturecontrolloop | inletoroutletmanifoldleakorlambda-sensor failure | |
| 53 Sensorpowersupply | Pin19,2and14shouldbeconnectedtoground. Pin18,37shouldhave+10-15.5Vonthem(+from battery) | |
| 54 ECUmalfunction | • • | 142 |

| Code Description **** ECUXMBoschMotronicMP5.1.1 11 Endtest | Check XM2.0RFVXU10J4R/L/L3(16V)Multiploint | Comp *** *** |
|--|---|--------------------------|
| 12 Starttest 13 Injectionairtempsensor 14 Coolingwatertempsensor 21 Throttlespindlepotentiometer 22 Idlingactuator/Idlespeed regulator | 4k@10C;2,5k@20C;680@55C 4k@10C;2,5k@20C;680@55C;230@90C Closed0.5V,fullyopen4.5V(minimal) | 907 909 770 432 |
| 27 Vehiclespeedsensor | R=300Ohmonsensor;Whendrivingaspeed relativesignalonpin9 | 154 |
| 31 Automaticadjustmentair/fuel ratio | Checkogygensensor,inlet&outletmanifoldon leakage,fuelpressure,fuelinjectors,sparkplugs, airfilterelement,compression. | 900 |
| 33 Inletmanifoldairpressuresensor | IsintegratedintheECUandcannotbechecked. CheckvacuumhosetoECU. | 903 |
| 34 Canisterdischargevalve(active carbonfilter) | | 430 |
| 41 Enginespeedsensor | 320-340Ohmbetweenpin11and30;check isolationtoground | 152 |
| 42 Fuelinjectors | Checkresistanceofeachinjector.Shouldbe16 Ohmeach. | 570 |
| 43 Engineknockcontrolloop | correctfuelgrade,mechanicalstateengine | |
| 44 Anti-knocksensor | Checkmountingofsensor(torque:20Nm) | 150 |
| 51 Oxygen/lambdasensor | Whenenginehotandrunningshouldconstantly changefrom0to1Vmeasuredbetweenpin28and pin10. | 900 |
| 52 Air/fuelmixturecontrolloop | inletoroutletmanifoldleakorlambda-sensor failure | |
| 53 Sensorpowersupply | Pin19,2and14shouldbeconnectedtoground. Pin18,37shouldhave+10-15.5Vonthem(+from battery) | |
| 54 ECUmalfunction | | 142 |

| Code Description | Check | Comp |
|--|--|------|
| **** ECUXMV6Fenix3B | | *** |
| 11 Endtest | | *** |
| 12 Starttest | | *** |
| 13 Injectionairtempsensor | 4k@10C;2,5k@20C;680@55C | 907 |
| 14 Coolingwatertempsensor | 4k@10C;2,5k@20C;680@55C;230@90C | 909 |
| 15 Fuelpumprelais | | 807 |
| 21 Throttlespindlepotentiometer | 4,5Vmaxswingonpin9 | 770 |
| 22 Idlingactuator/Idlespeed regulator | | 432 |
| 23 Throttlespindlepotentiometer idlevalue | 0,5+/-0,1Vbetweenpin9and17(gnd) | 770 |
| 27 Vehiclespeedsensor | R=300Ohmonsensor;Whendriving1,5Voltonpin 3 | 154 |
| 31 Automaticadjustmentair/fuel ratio | oxygen/lambdasensortooquick(disconnectheater elementtoresolve) | 900 |
| 33 Inletmanifoldairpressuresensor | 400Pa=2,5V;600Pa=1,25Vbetweenpin33and17 (gnd) | 903 |
| 34 Canisterdischargevalve(active carbonfilter) | | 430 |
| 36 Relaisoxygen/lambdasensor heater | | 818 |
| 41 Enginespeedsensor | 330Ohmbetweenpin11and28;checkisolationto ground | 152 |
| 42 Fuelinjectors | 14Ohmeachinjector(2-3Ohmbetweenpin20/21 andpin30) | 570 |
| 43 Engineknockcontrolloop | correctfuelgrade,mechanicalstateengine | |
| 44 Frontanti-knocksensor | - | 150 |
| 51 Oxygen/lambdasensor | Whenenginehotandrunningshouldconstantly changefrom0to1Vonpin35frompin32(gnd) | 900 |
| 52 Air/fuelmixturecontrolloop | inletoroutletmanifoldleak | |
| 53 Sensorpowersupply | 10-15,5Vonpin4ECUfromgnd(pin1). | |
| 54 ECUmalfunction | | 142 |
| 56 Anti-theftstartcodenotentered | | 176 |
| 62 Rearanti-knocksensor | | 151 |

| 91 92 93 94 | Description ECUXMV6Fenix3B(activatecomponents) Componentactivationisperformed Activatefuelpumprelais Activatefuelinjectors Activateidlingactuator Activatecanisterdischargevalve Activaterelaisaircocompressor | Comp **** 807 570 432 430 822 |
|----------------------------|--|---|
| 22 33 | ECUXMV6Fenix3B(Mixtureadjustment) Makemixturericher Makemixtureleaner Programstart upperorlowerlimitreached | **** |
| 12 13 14 19 22 | ECUXMV6Fenix3B(Ignitiontimingadjustment) 2degreesadvance 4degreesadvance 6degreesadvance 8degreesadvance defaultsetting Programstart upperorlowerlimitreached | *** |

| Code Description | Check | Comp |
|---|--|------|
| **** ECUHydroactivel/IIsuspension | VersionHlandHllpinningaretotallydifferent. | **** |
| 11 Endtest | | *** |
| 12 Starttest | | *** |
| 21 Brakepressureswitch | Switchwillopenwhenfirmbrakepressureapplied (HImeasurebetweenpin7whiteandground,HII betweenpin11blackandgnd) | 670 |
| 22 Acceleratorpedalposition | Pedalup=3-4V;pedaldown<3V.HImeasure | 771 |
| potentiometer(situatedunder pedal) | betweenpin10whiteandground.HIIbetweenpin 4blackandground. | |
| 23 Steeringwheelpositionsensor | Willalternatebetween0and+5Vwhenslowly movingsteeringwheel.HI:Measureonbothon pins6and13whitetopin12whitewhichis ground.HII:pin9,10,15blackand13whitearefor steeringwheelsensor.Twopinsforposition,other twoforpowersupplyandground. | 159 |
| 24 Vehiclespeedsensor | HI:R=300Ohmonspeedsensor,whendrivingca 1,5Vonpin13black.HII:measurespeedsignalon pin11white. | 154 |
| 25 Vehicleheightsensor | Willalternatebetween0and+5Vwhenvehicle heightischanged.HI:Measureonbothonpins3 and4blacktoground.HIImeasureonbothpins 13and14blacktoground. | 153 |
| 31 Electrovalvefirm/softsuspension | R=3-5Ohm, when valve is operated suspension is soft. HI: Measure between pin 9 black and ground. HII: Measure between pin 1 white and ground. When valve is a civated measure 12 volt, followed by an alternating signal at a few hundred Hertz. | 433 |
| 32 Backelectrovalvefirm/soft suspension | OnlypresentonHydroactiveII.R=3-5Ohm,when valveisoperatedsuspensionissoft.HII:Measure betweenpin2whiteandground.Whenvalveis acivatedmeasure12volt,followedbyan alternatingsignalatafewhundredHertz. | |
| 53 ECUpowersupply 54 ECUmalfunction | HI:checkfuse34.HII:checkfuse7. | |

| Code | Description ECUABS(Tevesversion) | Check Tevesversioniswithtwoseperatureunits,Bendix | Comp |
|------|----------------------------------|--|------|
| | LOOADO(Tevesversion) | hasvalvesandecuintegrated. | |
| 11 | Endtest | | *** |
| 12 | Starttest | | *** |
| 13 | Electrovalvessupply | checkresistanceonelectrovalves2-4Ohmeach. Pin1,2,3,4,5on7pinconnectoragainstpin5on5 pinconnector | 41 |
| 15 | Electrovalvesrelais. | Checkresistancebetweenpin2and3on5pin connector50-60Ohm | 41 |
| 21 | Electrovalvesrelais. | Checkresistancebetweenpin2and3on5pin connector50-60Ohm | 41 |
| 22 | Electrovalvesrelais. | Checkwiringtoelectrovalvesonshortcircuitor looseconnection | |
| 24 | LHrearwheelsensor | MeasureR=1-1,4kOhm(after3-94R=2,2-3,2kOhm),betweenpin15and32onECU | 157 |
| 25 | RHfrontwheelsensor | MeasureR=1-1,4kOhm(after3-94R=2,2-3,2kOhm),betweenpin16and33onECU | 156 |
| 31 | RHrearwheelsensor | MeasureR=1-1,4kOhm(after3-94R=2,2-3,2kOhm),betweenpin17and34onECU | 158 |
| 32 | LHfrontwheelsensor | MeasureR=1-1,4kOhm(after3-94R=2,2-3,2kOhm),betweenpin18and35onECU | 155 |
| 33 | LHrearwheelsensorsignal | Checksignal,checkair-gapbetweenteeth-sensor, checkteethcondition | 157 |
| 34 | RHfrontwheelsensorsignal | Checksignal,checkair-gapbetweenteeth-sensor, checkteethcondition | 156 |
| 35 | RHrearwheelsensorsignal | Checksignal,checkair-gapbetweenteeth-sensor, checkteethcondition | 158 |
| 41 | LHfrontwheelsensorsignal | Checksignal,checkair-gapbetweenteeth-sensor, checkteethcondition | 155 |
| 42 | ElectrovalveRHfrontinlet | Checkresistanceofelectrovalvebetweenpin2on 7pinconnectorandpin5on5pinconnector | 41 |
| 43 | ElectrovalveRHfrontreturn | Checkresistanceofelectrovalve2-4Ohmbetween pin4on7pinconnectorandpin5on5pin connector | 41 |
| 44 | ElectrovalveLHfrontinlet | Checkresistanceofelectrovalve2-4Ohmbetween pin3on7pinconnectorandpin5on5pin connector | 41 |
| 45 | ElectrovalveLHfrontreturn | Checkresistanceofelectrovalve2-4Ohmbetween pin5on7pinconnectorandpin5on5pin connector | 41 |
| 51 | Electrovalverear | Checkresistanceofelectrovalve2-4Ohmbetween pin1on7pinconnectorandpin5on5pin connector | 41 |
| 55 | ErrorinECUmemory | | 140 |

| Code **** | Description ECUABS(Bendixversion) | Check Tevesversioniswithtwoseperatureunits, Bendix hasvalvesandecuintegrated. |
|----------------------------------|---|---|
| 11 12 13 | Endtest Starttest Electrovalvessupply | G |
| 15 | Electrovalvesrelais. | CheckRelais |
| 21 | Electrovalvesrelais. | CheckRelais |
| 22 | Electrovalvesrelais. | CheckRelais |
| 24 | LHrearwheelsensor | MeasureR=1-1,4kOhm(Bendixtype)orR=2,2-3,2kOhm(Bendix/Siemenstype),betweenpin19 and28onECU |
| 25 | RHfrontwheelsensor | MeasureR=1-1,4kOhm(Bendixtype)orR=2,2-3,2kOhm(Bendix/Siemenstype),betweenpin1 and6onECU |
| 31 | RHrearwheelsensor | MeasureR=1-1,4kOhm(Bendixtype)orR=2,2-3,2kOhm(Bendix/Siemenstype),betweenpin29 and31onECU |
| 32 | LHfrontwheelsensor | MeasureR=1-1,4kOhm(Bendixtype)orR=2,2-3,2kOhm(Bendix/Siemenstype),betweenpin15 and30onECU |
| 33 | LHrearwheelsensorsignal | Checksignal,checkair-gapbetweenteeth-sensor, checkteethcondition |
| 34 | RHfrontwheelsensorsignal | Checksignal,checkair-gapbetweenteeth-sensor, checkteethcondition |
| 35 | RHrearwheelsensorsignal | Checksignal,checkair-gapbetweenteeth-sensor, checkteethcondition |
| 41 | LHfrontwheelsensorsignal | Checksignal,checkair-gapbetweenteeth-sensor, checkteethcondition |
| 42 43 44 45 51 55 | ElectrovalveRHfrontinlet ElectrovalveRHfrontreturn ElectrovalveLHfrontinlet ElectrovalveLHfrontreturn Electrovalverear ErrorinECUmemory | |

| | Description | Check | Comp |
|------|---|--|-------|
| **** | ECUAirconditioning(Full automatic, Semiautomatic | | |
| | with/withoutairco) | | |
| 11 | Endtest | | *** |
| 12 | Starttest | | *** |
| 13 | Airflowdirectionvalveposition | Fullautoonly;pin3blackvoltageshouldvary | 710 |
| | potentiometersignal | whenchangingventposition. | |
| 14 | Airflowdirectionvalveposition | | 710 |
| 15 | potentiometershort-circuit Recirculationvalveposition | Fullautoonly;pin4blackvoltageshouldchange | 711 |
| 13 | potentiometersignal | whenchangingrecirculation. | 711 |
| 16 | Recirculationvalveposition | 3 | 711 |
| | potentiometershort-circuit | | |
| 17 | Airflowdirectionvalveposition | Fullautomaticonly.ElectrovalveonRHsideof | 710 |
| 18 | signalswingnotcorrect Hotair/coldaircontrolvalve | mid-console. | 700 |
| 10 | positionsignalswingnotcorrect. | Fullautomaticonly.ElectrovalveonLHsideofmid- console. | 700 |
| 21 | Hotair/coldaircontrolvalve | Fullauto:pin15black.Other:pin3blue.Signal | 700 |
| | positionpotentiometersignal | shouldvarywhenchangingtemperaturebetween | |
| | | minandmax. | |
| 22 | Hotair/coldaircontrolvalve | | 700 |
| | positionpotentiometershort- circuit | | |
| 23 | Evaporatortemperaturesensor | Fullauto:Betweenpin14blackandpin1black. | 912 |
| | signal | Semiauto:Betweenpin2blueandpin1black. | |
| | | R=10k@10C;6k@20C;5k@25C;4k@30C | 0.4.0 |
| 24 | Evaporatortemperaturesensor short-circuit | | 912 |
| 25 | Outdoortemperaturesensor | Inair-inlet.Fullauto:Betweenpin13blackandpin | 908 |
| 20 | signal | 1black.Semiauto:Betweenpin1blueandpin1 | 300 |
| | | black.R=20k@10C;12,5k@20C;10k@25C; | |
| 200 | Out despite an area to a second | 8k@30C | 000 |
| 26 | Outdoortemperaturesensor short-circuit | | 908 |
| 27 | Recirculationvalvepositionsignal | Fullautomaticonly.Electrovalveonblowerunit? | 711 |
| | swingnotcorrect | , | |
| 31 | Interiortemperaturesensorsignal | Fullauto:Betweenpin10blueandpin1black. | 913 |
| | | Semiauto:Betweenpin5blackandpin1black. R=20k@10C;12,5k@20C;10k@25C;8k@30C | |
| 32 | Interiortemperaturesensorshort- | N=20k@10C,12,3k@20C,10k@23C,6k@30C | 913 |
| 02 | ciruit | | 310 |
| 33 | Interiorairblowermotorsignal | Semiautoonly.Ifonlyhighestspeedworks,check | 681 |
| | lineinterrupted | transistorsoncontrolmoduleonblowermotor. | |
| 34 | Interiorairblowermotorsignal | Semiautoonly. | 681 |
| 35 | lineshort-circuit Hotair/coldairflapmotorline | Fullauto:Betweenpin6and7black.Semiauto: | 700 |
| 55 | interrupted | Betweenpin9and10blue.R=50Ohm. | 700 |
| 36 | Hotair/coldairflapmotorline | Seefault35.Typicalfaultarewornmotorbrushes, | 700 |
| | short-circuit | whichcauseshort-circuit.Canbesolvedby | |
| 44 | A : | reshapingbrushes(eg.withaknife). | 400 |
| 41 | Airblowerspeedpotentiometer signalinterrupted | Semiautoonly. Visually checkpotentiometer track on pcb. | 183 |
| 42 | Airblowerspeedpotentiometer | Semiautoonly.Visuallycheckpotentiometertrack | 183 |
| | signalshort-circuited | onpcb. | . 00 |
| 43 | Temperatureselection | Semiautoonly.Visuallycheckpotentiometertrack | 182 |
| | potentiometersignalsignal | onpcb. | |
| 44 | interrupted Temperatureselection | Semiautoonly.Visuallycheckpotentiometertrack | 182 |
| 44 | i emperatureselection | oennautooniy.vioualiyoneokpotentiometertiack | 102 |